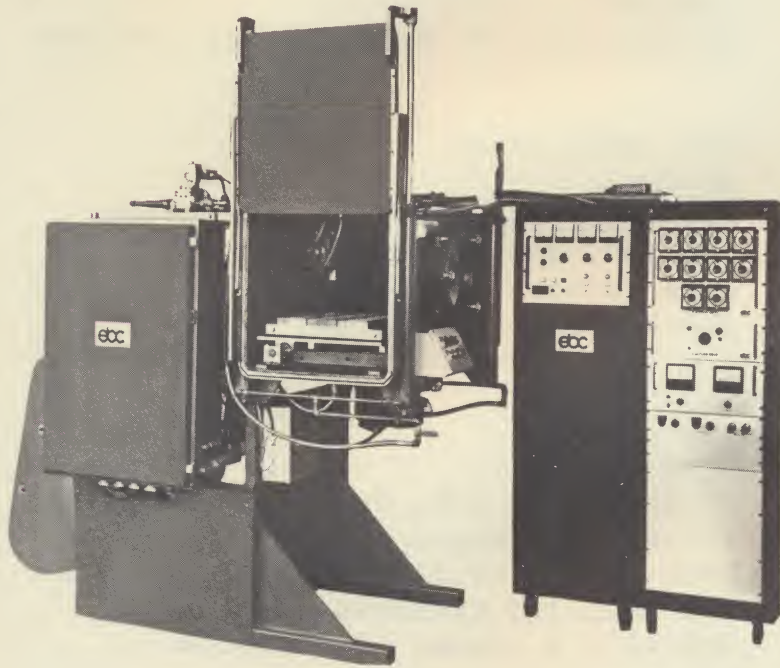




# technical data

## MODEL EBW-3B



New from EBC/THOMSON is this EBW-3B production electron beam welder. This machine is specifically engineered for completely programmed, fully automatic, high production welding.

The EBW-3B which is illustrated was designed for production welding of transformer core laminations. This system can automatically weld 300 3" x 4" cores per hour.

The entire welding cycle of the EBW-3B can be sequenced by a control system operated by four pushbuttons. This four part cycle consists of automatic pump down, weld program initiation followed by air release and door opening and closing.

The weld cycle is programmed for from 1 to 11 welding passes and the distance between each may be set independently of one another. The distance between passes is adjustable from .1 to 6 inches and the welding speed from 2 to 200 inches per minute.

Variations of the EBW-3B can be made to meet specific customer requirements. A variety of chamber sizes, programming devices, etc. can be supplied.

Condensed specifications of the EBW-3B are listed on the reverse side of this bulletin.

ELECTRON BEAM CORPORATION  
CONDENSED SPECIFICATIONS

EBW-3B

VACUUM CHAMBER

Material:	Stainless or Mild Steel
Volume:	Up to 27 cubic feet
Ultimate Vacuum:	$1 \times 10^{-6}$
Tooling:	As required for specific applications

VACUUM PUMPING SYSTEM

Diffusion Pump:	10", 4200 l/sec.
Mechanical Pump:	50 cfm
Valves:	Air actuated, solenoid controlled, one 10", one 3", one 2"
Gauge:	Cold cathode ionization (1) thermocouple gauges (2)
Pump Down Time:	$2 \times 10^{-5}$ torr in 10 minutes or less

POWER SUPPLY

Rating:	3 KW
Main Supply:	Up to 20,000 VDS, up to 150 milliamps
Filament Supply:	10 VAC, 30 amperes
Bias Supply:	2500 VDC, 6 milliamps
Focus Supply:	300 VDC, 100 milliamps
Input:	208/220, 3 phase, 50/60 cycle

ELECTRON BEAM GUN

Type:	Self-accelerated, triode
Material:	Stainless steel, high alumina ceramic, copper
Focusing:	Electromagnetic
Cooling:	Not required (gun designed for high temperature operation)

UTILITIES REQUIREMENTS

Electrical:	208/220, 3 phase, 50/60 cycle, up to 7 KVA
Water:	0.25 gpm at 60 deg. F.

SHIPPING INFORMATION

Dimensions:	4 ft. wide x $9\frac{1}{2}$ ft. deep x 6 ft. high
Weight:	Approximately 4750 lbs.

For further information describing the EBW-3B call or write:

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